

Kelly Wentz-Hunter, Ph.D.

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Education:

Ph.D. 1997. Department of Pharmacology and Molecular Biology
Rosalind Franklin University of Medicine and Sciences, North
Chicago, IL

B.S. 1991. Magna cum laude Major: Biology Minor: Chemistry
University of Saint Francis, Joliet, IL

Professional Highlights:

- ❖ Twelve years of administrative experience
- ❖ Successfully developed and sustained new programs and accelerated degree pathways: four undergraduate health-related degrees; MA Biomedical Sciences; MS Health Informatics, Healthcare Ethics, Analytics, and Law (HEAL) graduate certificate; dual acceptance program [BS/PharmD]; and 3+3 BS/PharmD
- ❖ Co-PI, Department of Education Research and Development Infrastructure grant, 2024-2027, \$4,991,504
- ❖ Co-PI, Title III HSI-STEM Roosevelt University Learning and Engagement for STEM Success, Co-PI, 2021-2026, \$2,718,944
- ❖ PI, Howard Hughes Institute of Medicine Inclusive Excellence grant, 2018-2025, \$1,000,000
- ❖ Chair, Provost Search Committee, 2021
- ❖ Chair, College of Arts and Sciences Council, 2016-2018
- ❖ Building a Stronger Roosevelt, RMU Integration Task Force, 2019
- ❖ Assessment Committee, 2009-2020
- ❖ Chair, Institutional Animal Care and Use Committee, 2010-2018
- ❖ University Senate, Senate Executive Committee, 2014-2016
- ❖ Planning and Budget Committee, 2013-2016
- ❖ Outstanding Service Award, Roosevelt University, 2009; 2018

Administrative Experience:

Dean, College of Science, Health and Pharmacy, Roosevelt University, August 2020-present

Primary Responsibilities and Accomplishments:

- **Budgeting:** Administer the annual budget for the Science and Health portion of the college of over \$3.3 million [total college budget approximately \$6.4 million]; oversee multiple academic divisions; monitor programmatic budgets and collaborate with division chairs and directors to ensure appropriate utilization of

funds; coordinate equipment repair and replacement requests; seek external funding for academic funding [Title III HSI-STEM grant funded, NSF S-STEM grant pending]; also oversaw the College of Education budget for 13 months including grants from A Better Chicago and numerous TRIO programs

- **Developing Faculty:** Lead faculty development for approximately 12 full-time faculty members and numerous adjunct faculty, worked to increase funding opportunities for faculty to virtually attend professional development conferences in relationship to pedagogy and inclusion.
- **Evaluative Personnel:** Supervise the administrative team of the Science and Health portion of the College, including Executive Secretary, Director of Health Programs, Chair of Biological, Physical and Health Sciences, Chair of Mathematics and Computer Science, Chair of Counseling and Human Services, Director of Nursing, Director of Healthcare Ethics, Analytics and Law, Laboratory Manager, and Science Advisor; lead and coordinate evaluation processes including making independent recommendations on all Science and Health appointments, retention, tenure and promotion applications. In the College of Education, supervised 3 departments
- **Developing and Evaluating Academic Offerings:** Provide leadership and manage the programs and activities of the College; coordinate development and evaluation of instructional program offerings according to RU's Strategic Plan [including the development of graduate programs in health informatics and occupational therapy]; oversee successful accreditation visit of our nursing program.
- **Diversity, Equity and Inclusion:** Promote second-order change initiatives surrounding DEI on campus by providing workshops for the University and College, including Bystander Awareness, Implicit Bias, Cross-Cultural Mentoring, and Metacognition.

Interim Dean, College of Education, Roosevelt University, June 2022-July 2023

Primary Responsibilities and Accomplishments:

- **Budgeting:** Administer the annual budget for the College of Education and oversee multiple academic divisions; monitor programmatic budgets and collaborate with division chairs and directors to ensure appropriate utilization of funds; coordinate equipment repair and replacement requests; seek external funding for academic funding [Title III HSI-STEM grant funded, NSF S-STEM grant pending]; also oversaw the College of Education budget for 13 months including grants from A Better Chicago and numerous TRIO programs

- **Developing Faculty:** Lead faculty development for approximately 30 full-time faculty members and numerous adjunct faculty, scaled up inclusive excellence and diversity training to include not only full-time but adjunct faculty and faculty outside of College, worked to increase funding opportunities for faculty to virtually attend professional development conferences in relationship to pedagogy and inclusion
- **Evaluative Personnel:** Supervise the administrative team of the College of Education, including Assistant Dean, Chair of Teacher Licensure, Director of Field and Clinical Placement, Chair of Instructional Leadership, Executive Director of School and Community Programs, and Chair of Counseling and Human Services; lead and coordinate evaluation processes including making independent recommendations on all College of Education appointments, retention, tenure and promotion applications.
- **Developing and Evaluating Academic Offerings:** Provide leadership and manage the programs and activities of the College; coordinate development and evaluation of instructional program offerings according to RU's Strategic Plan [including the development of Interdisciplinary Leadership Ed.D.]; oversee successful endorsement audit of our education offering by the Illinois Board of Education.
- **Diversity, Equity and Inclusion:** Oversaw facilitation of a grant from Black Educators Initiatives to increase the number of minority Principals and Assistant Principals; managed relationship with A Better Chicago grant to provide tutors in Chicago Public Schools high need areas to increase student performance.

Chair, Department of Biological, Physical and Health Sciences, Roosevelt University, May 2018- August 2020

Primary Responsibilities and Accomplishments:

- **Budgeting:** Administered the annual departmental non-personnel budget of approximately \$275,000; oversaw allocation of resources to classrooms, laboratories and research.
- **Developing Faculty:** Lead faculty development for 11 full-time faculty members and numerous adjunct faculty; lead yearly faculty evaluation process including making recommendations to the Dean of College of Arts and Sciences in regards to appointments, retention, tenure and promotion applications; provided opportunities for faculty development both in house and through access to conferences.
- **Developing and Evaluating Academic Offerings:** Provide leadership and manage the programs and activities of the Department; oversaw the review of biology curriculum to align with Vision and Change and PULSE initiatives; managed course

scheduling, enrollment and staffing of all courses in department [major and non-major].

- **Diversity, Equity and Inclusion:** As PI of HHMI Inclusive Excellence grant, provided leadership on faculty, staff and student workshops on DEI; developed Science Peer Advisors positions for mentoring of students; worked with consultants to provide resources and support for second order change initiatives in department; organize summer program Roosevelt Intensive Science Experience for incoming science students to build sense of belonging in science and the University.

Director, Biomedical Sciences (MA), Roosevelt University, May 2014-August 2020

Primary Responsibilities and Accomplishments:

- **Development and Evaluating Academic Offerings:** Provided leadership and development of program for students to improve their academic foundation in the biomedical sciences and augment their credentials for admission into medical school or other health professional programs; significantly increased the number of successful application and matriculation from RU of first generation and people excluded because of ethnicity or race to professional health care graduate schools
- **Admission:** In conjunction with graduate admissions liaison, made holistic admission decisions on applicants
- **Advising:** Advised new and continuing students on courses and program requirements; advised students with regard to progress through the program and application to professional graduate schools [medical, dental, physician assistant, etc.]
- **Student Support and Success:** Provided student support services such as mentoring, mock interviews, and personal statement workshops

Director, Allied Health Programs, Roosevelt University, May 2012- August 2019

Primary Responsibilities and Accomplishments:

- **Advising:** Advised new, continuing, and prospective students on admissions, courses, and program requirements; advised students with regard to progress through the program and application to clinical placement; helped prepare students for application to medical technology, radiography, diagnostic medical sonography, nuclear medicine technology, radiation therapy technology and histotechnology.
- **Affiliate Liaison:** Worked with current affiliates and potential affiliates to increase clinical opportunities for students; served on the advisory boards of the radiography, diagnostic medical sonography, nuclear medicine technology, and radiation therapy technology programs; developed relationships with clinical directors

to increase student preparedness and competitiveness for clinical placement.

- **Developing and Evaluating Academic Offerings:** Provided leadership and development of three additional allied health programs during tenure as director: radiography, diagnostic medical sonography, and histotechnology

Curriculum Development and Pedagogical Reform:

New programs

2025- Health Sciences, BA

This bachelor's degree was designed to support student success, institutional growth, and community health. This forward-looking investment in workforce development and interdisciplinary education meets both market needs and mission-driven goals.

2023- Health Informatics, MS

This cohort-based MS program was designed to prepare students for the emerging field of Health Informatics. prepared the required support documents for proposing this new degree and receiving approval for the program at all University levels; worked with the Admissions and Marketing Departments at the University to promote the program.

2021- Healthcare Ethics and Analytics, Graduate Certificate

Along with Dean Melissa Hogan, involved in the creation of the new graduate certificate in Healthcare Ethics and Analytics [HEAL]; began in Spring 2022.

2017- Health Sciences Administration, BA

Along with the Associate Dean Catherine Campbell and Professor La Vonne Downey, involved in the creation of the new undergraduate program in Health Sciences Administration, began in the Fall 2018; involved in the hiring of a director and non-tenure track faculty for the program.

2016- Dual Acceptance Program BS/PharmD

The Dual Acceptance Program is an early assurance program for select high school seniors; responsible for preparing the proposal and working with the Deans in both the College of Arts and Sciences and College of Pharmacy to final approval [prior to the formation of new college]; worked with the Admissions and Marketing Departments at the University to implement and promote the program for Fall 2017.

2014- Biomedical Sciences, MA

This 9-12 month MA program was designed to help students with a bachelor's degree, preferably with a major in the sciences, improve their academic foundation in the biomedical sciences and augment their

credentials for admission into medical school or other health professional programs; prepared the required support documents for proposing this new degree and receiving approval for the program at all University levels; worked with the Admissions and Marketing Departments at the University to promote the program; proposed differential tuition structure for this program; has been in place since Fall 2015.

Allied Health Histotechnology, BS

The 3+1 Allied Health-Histotechnology BS degree was initiated and affiliated with Northwestern Memorial Hospital [NMH] Department of Pathology; requires students to complete the prerequisites for the program, as well as, their general education requirements within their first three years at the University after which two semesters are spent at NMH completing the coursework and clinical rotations required for histotechnology; has attracted new majors to the University and broadened the range of career opportunities for our graduates; at the time, it was the only BS Histotechnology training program in the state of Illinois.

Biology BS 3+1

This program was initiated to allow RU Biology undergraduate students who were accepted into our College of Pharmacy doctorate program to obtain their Biology BS degree after the successful completion of one year of the Pharmacy Doctorate; Doctorate of Pharmacy programs are allowed to accept students before bachelor degree completion; responsible for the creation of the guidelines and receiving approval for the program at all University levels and acting as a liaison with the College of Pharmacy and Registrar's office to insure eligible students receive their BS Biology degrees. [before creation of new college]

2013– Allied Health Radiography, BS

The 2+2 Allied Health-Radiography BS degree was initiated and affiliated with NMH Clinical School; the degree requires students to complete the prerequisites for the program, as well as, their general education requirements within their first two years at the University after which four semesters are spent at NMH completing the coursework and clinical rotations required for radiography; this degree has attracted new majors to the University and broadened the range of career opportunities for our graduates; responsible for preparing the required support documents for proposing this new degree and receiving approval for the program at all University levels.

Allied Health Diagnostic Medical Sonography, BS

The 3+1.5 Allied Health-Diagnostic Medical Sonography BS degree was initiated and affiliated with NMH Clinical Schools; the degree requires students to complete the prerequisites for the program, as well as, their general education requirements within their first three years at the

University after which three semesters are spent at NMH completing the coursework and clinical rotations required for diagnostic medical sonography; this degree has attracted new majors to the University and broadened the range of career opportunities for our graduates. I was responsible for preparing the required support documents for proposing this new degree and receiving approval for the program at all University levels.

Pedagogical reform

2015- PULSE: Partnership for Undergraduate Life Science Education

Our department initiated a visit from the PULSE Ambassador Program in the fall of 2015. The department worked with the initiatives of PULSE to reform our biology curriculum.

Life Science Teaching Resource Center [LifeSciTRC] Scholars/Fellows Meeting

One of twelve individuals invited to participate in the LifeSciTRC task force meeting; worked in large and small groups to develop recommendations for the identifying, supporting, and retaining LifeSciTRC community leaders, promoting the scholarship of teaching and learning in the community, addressing science standards and recommendations (Next Generation Science Standards & Vision and Change), community tools and topics and partner involvement in the Community.

2014- LifeSciTRC Fellow

LifeSciTRC is an online community for life science educators at all levels. The community and educational resources found on this site are free and open to educators worldwide; completed the LifeSciTRC scholars program designed to help educators find and evaluate electronic resources to use with students, effectively use electronic resources in student-centered learning, apply the core concepts and competencies of Vision and Change in Science Education to existing classroom materials, find and evaluate existing resources and resource collections centered around Vision and Change and further one's professional development by participating in an online community; as a fellow responsible for mentoring two different scholar groups through the program; included grading submissions, answering questions and helping participants improve their competencies in regards to Vision and Change.

2009- Cellular and Molecular Biology: Cancer

The SENCER Model Course 'Cellular and Molecular Biology: Cancer' was nominated by Wm. David Burns, founder and PI of SENCER, the NSF-supported national dissemination project. SENCER models are field-tested examples of courses and programs that embody the SENCER ideals, illustrate applications in several disciplines, and focus on matters of

civic consequence.

http://serc.carleton.edu/sencer/cellularbiology_cancer/index.html

Vision and Change in Undergraduate Biology Education: A Call to Action
The National Conference organized by the American Association for the Advancement of Science prepared a report on Vision and Change. I was an invited participant to the three day meeting where we worked on initiatives around the core competencies.

2008- Science Education for New Civic Engagement and Responsibilities [SENCER] Leadership Fellow
SENCER Leadership Fellows program recognizes members of the community interested in taking on more advanced involvement through formal roles in the project. Leadership Fellows are appointed for 18-month, renewable terms, and work on projects of their own design. Fellows projects have included course design, faculty development, research into student learning, and initiatives to assist other members of the SENCER community in their professional development.

Assessment:

Program Leader, 2011-2020

Involved in assessment at the department level for both the biology and allied health degrees; responsible for helping to design program improvement and assessment plans for the programs and using the Learning Outcomes Open Platform, an online data base, to deposit these plans; along with my colleague Cornelius Watson, wrote an Assessment of Student Learning Micro-Grant to comply course assessment across the curriculum in the department; presented our results during an assessment summit in spring of 2014.

Recruitment and Advising:

Pre-professional Advisor, 2012-2018

Directed the pre-professional health programs and helped prepare students for application to professional schools such as medicine, dentistry, optometry, podiatry, veterinary medicine, pharmacy, physical therapy and physician assistant; advised new, continuing, and prospective students on admissions, courses, and program requirements; mentor students who were exploring/undecided about a health career to identify goals, interests, strengths and abilities so that they could make decisions and pursue academic majors that meet their personal and professional goals; advised students with regard to progress through the program and application to professional schools; oversees professional program admissions and registration; kept abreast of admissions and registration requirements and procedures; coordinated student placement into the medical internship program; oversaw student community service, volunteer and extracurricular opportunities; collect, monitor, and report on pre-health student metrics and outcomes; develop, coordinate, and participate in

special programs designed to promote student recruitment and retention; develop promotional and informational materials for use in advisement, admissions and advising; train, direct, and coordinate the work of others in providing student advisement or assistance services; serve as the institution's representative to the National and Central Associations of Advisors for the Health Professions; serve as advisor to the pre-professional and pre-vet student organizations; work with current affiliates and potential affiliates to increase clinical opportunities for students; and develop relationships with professional schools' admission departments/administrators to increase students' admission into such programs and explore dual acceptance opportunities.

Relevant Professional Teaching Experience:

2017-present	Professor of Biology, Roosevelt University, Chicago, IL
2012-2017	Associate Professor of Biology, Allied Health Coordinator, Pre-professional Advisor, Roosevelt University, Chicago, IL
2006-2012	Assistant Professor of Biology, Roosevelt University, Chicago, IL
2006	Adjunct Faculty, Lewis University, Romeoville, IL Taught Introduction to Toxicology for upper level majors.
2006	Adjunct Faculty, University of Saint Francis, Joliet, IL Taught Human Biology and laboratory for non-majors.
2005- 2006	Adjunct Faculty, Triton College, Melrose Park, IL Taught General Biology and laboratory and Human Genetics and laboratory for non-majors.
2004- 2006	Adjunct Faculty, Malcolm X College, Chicago, IL Taught Molecular and Cellular Biology and laboratory for majors.

Courses Designed and Taught:

Graduate

BIOL 440 Human Pharmacology
BIOL 443 Clinical Bioethics and Medical Literature
BIOL 450 Cancer Biology
BIOL 468 Research Methods
BIOL 471 Biology of Aging
BIOL 483 Special Topics: Survival of the Sickest
BIOL 483 Special Topics: Drug Actions
BIOL 483: Special Topics: One Health

Undergraduate

BIOL 350 Cancer Biology
BIOL 371 Biology of Aging
BIOL 383 Special Topics: Survival of the Sickest
BIOL 383 Special Topics: Drug Actions
PHIL 337: Science and Ethics [Honors]
ACP 101: 21st Century Health Care [Freshman Seminar]
ACP 110: Primary Text

Courses Taught:

Undergraduate

BIOL 118 Intro to Medicine and Health Sciences
BIOL 201 Organismic Biology and Lab
BIOL 301 Cellular and Molecular Biology and Lab
BIOL 358 Cell Biology Lab

Second faculty travel abroad courses

BIOL 369/469: Conservation Biology, Tanzania
BIOL 323/423: Tropical Biology, Belize

Research Supervision/Students Mentored:

Graduate Students [45]

Undergraduate Students [47]

Advisor for Master's Thesis [3]

2019- *Effects of Pterostilbene on HT-29 gene expression*, Ramya Ogirala

2016- *Effects of Antioxidant Epigallocatechin Gallate (EGCG) on Pancreatic Cancer*, Sheba Prasad

2015- *The Effects of Pterostilbene in Pancreatic Cancer*, Sierra D'Cruz

Committee Member Doctoral Thesis [1]

Elysia Soria [2020]

Committee Member Master's Thesis [6]

Deborah Eng [2015]; Nausheen Khan [2014]; April Quarles [2014]; Phylicia Robins [2013]; John Literacki [2011]; Andrew Baker [2010]

Advisor for Honor's Thesis [12]

2015- *Differential expression of IPCEF-1 in pancreatic cancer cell line PANC-1 after treatment with EGCG*, Aslynn Cummings

2014- *Effects of Phloretin on DHCR24 gene of PANC-1*, Meghan Odendaal

An Apple a Day Keeps the Oncologist Away? Siobhan Odendaal

2013-*Differential gene expression in trabecular meshwork cells after treatment with phloretin*, Norhan Elsayed

Differential gene expression in pancreatic cancer after treatment with pterostilbene, Justyna Johnson

2011- *Differential gene expression in trabecular meshwork cells after oxidative stress*, Yuridana Comacho

2009- *Pterostilbene and its effect on the expression of glaucoma markers induced by oxidative stress in trabecular meshwork cells*, Maryam Aslani

Pterostilbene and its effect on glaucoma cells, Barbara Misielak Wegiel

The epidemic of cancer in Western society, Matthew Amidon

2008- *Characterization of cochlin from bovine ears*, Jennifer Betzer

WNT signal transduction in trabecular meshwork cells, Rajalekshmy Shyam

Trabecular meshwork cells and oxidative stress, Megan Kreft

Relevant Professional Research Experience:

Assistant/Associate/Professor of Biology

2006- present Roosevelt University, Department of Biological, Chemical, and Physical Sciences. The role of signal transduction and microRNA differential expression in the trabecular meshwork cells after oxidative stress; Protective effects of anti-oxidants against oxidative stress in the trabecular meshwork cells; The role of anti-oxidants in differential gene expression of cancer cell lines.

Visiting Research Assistant Professor

5/2009-1/2010 Rosalind Franklin University of Medicine and Science, Department of Molecular Pharmacology
Purification and characterization of serum microRNA biomarkers for antioxidants in humans

Visiting Research Assistant Professor

2002- 2006 University of Illinois at Chicago, Department of Ophthalmology and Visual Sciences

RNA interference of myocilin expression in the trabecular meshwork.

Instructor 2001-2002	University of Illinois at Chicago, Department of Ophthalmology and Visual Sciences Discovery of interacting factors of myocilin, a glaucoma gene.
Postdoctoral Fellow 1997-2001	Laboratory of Dr. Beatrice Yue, University of Illinois at Chicago Characterization of the function of myocilin in the trabecular meshwork and its role in glaucoma; biochemical analysis of keratoconus, a thinning corneal disease.
Doctoral 1991-1997	Laboratory of Dr. Judith Potashkin, Rosalind Franklin University of Medicine and Sciences Characterization of the pre-mRNA splicing factor U2AF in fission yeast.
Undergrad 1990-1991	Laboratory of Dr. Salim Diab, University of Saint Francis Characterization of the allelopathic compound juglone.

Publications

Peer Reviewed Manuscripts

- Potashkin J, Naik K, **Wentz-Hunter K**. (1993) U2AF homolog is required for splicing in vivo. *Science* 262: 573-575.
- Wentz-Hunter K** and Potashkin J. (1995) The evolutionary conservation of the splicing apparatus between fission yeast and man. *Nucl. Acid Symp. Series* 33: 226-228.
- Wentz-Hunter K** and Potashkin J. (1996) The small subunit of the splicing factor U2AF is conserved in fission yeast. *Nucl. Acids Res.* 24:1844-1854.
- Potashkin J, **Wentz-Hunter K**, Callaci J. (1996) BTF3 is conserved in fission yeast. *Biochim. Biophys. Acta.* 1308: 182-184.
- McKinney R, **Wentz-Hunter K**, Schimitz H, and Potashkin J (1997) Molecular analysis of a novel fission yeast gene spUAP2 that associates with the splicing factor spU2AF59. *Mol. Genet.* 32: 232-235.
- Ueda J, **Wentz-Hunter K**, Cheng E, Fukuchi T, Abe H, Yue BYJT. (2000) Ultrastructural localization of myocilin in human trabecular meshwork cells and tissues. *J Histochem. Cytochem.* 48: 1321-1329.
- Wentz-Hunter K**, Cheng EL, Ueda J, Sugar J, Yue BYJT. (2001) Keratocan expression is increased in the stroma of keratocorneas. *Mol. Med.* 7:470-477.
- Ochotorena IL, Hirata D, Kominami K, Potashkin J, Sahin F, **Wentz-Hunter K**, Gould KL, Sato K, Yoshida Y, Vardy L, Toda T. (2001) Conserved

- Wat1/Pop3 WD-repeat protein of fission yeast secures genome stability through microtubule integrity and may be involved in mRNA maturation. *J Cell Sci.* 114:2911-2920.
- Wentz-Hunter K**, Ueda J, Shimizu N, Yue BYJT. (2002) Myocilin is associated with mitochondria in human trabecular meshwork cells. *J Cell. Physiol.* 190:46-53.
- Wentz-Hunter K**, Ueda J, Yue BYJT. (2002) Protein interactions with myocilin. *Invest Ophthal Vis Sci.* 43:173-182.
- Ueda J, **Wentz-Hunter K**, Yue BYJT. (2002) Distribution of myocilin and extracellular matrix components in the cribriform meshwork of human eyes. *Invest Ophthal Vis Sci.* 43:1068-1076.
- Cheng EL, Ueda J, **Wentz-Hunter K**, Yue BYJT. (2002) Age-independent expression of myocilin in the human trabecular meshwork. *Int J Mol Med.* 10:33-40.
- Wentz-Hunter K**, Shen X, Yue BYJT. (2003) Distribution of myocilin, a glaucoma gene product, in human corneal fibroblasts. *Mol Vis.* 9:308-314.
- Wentz-Hunter K**, Kubota R, Shen X, Yue BYJT. (2004) Extracellular Myocilin Affects Activity of Human Trabecular Meshwork Cells. *J Cell. Physiol.* 200:45-52.
- Wentz-Hunter K**, Shen X, Okazaki K, Tanihara H, Yue BYJT. (2004) Overexpression of Myocilin in Cultured Human Trabecular Meshwork Cells. *Exp Cell Res.* 297:39-48.
- Shyam R, Shen X, Yue BYJT, **Wentz-Hunter KK**. (2010) Wnt expression in human trabecular meshwork cells. *Mol Vis* 16:122-129.
- Wentz-Hunter K**. (2010). The Use of Cancer Biology to Augment Concepts In Core Curriculum Cellular and Molecular Biology. MedEdPORTAL: <http://services.aamc.org/30/mededportal/servlet/s/segment/mededportal/?subid=8084>
- Wentz-Hunter KK** and Potashkin JA. (2011) The Role of miRNAs as Key Regulators in the Neoplastic Microenvironment. *Molecular Biology International* 201: Article ID 839872, 8 pages, doi:10.4061/2011/839872.

Proceedings Manuscript

- Wentz-Hunter K**. (2009) Life and death decisions: Upper level cancer biology course including civic engagement and creative writing. *Proceedings of ICERI 2009 Conference*, 005162-005173; ISBN:978-84-613-2955-7.

Presentations:

Invited Speaker

- 2020- *Dismantling the Bridge to Build the Community*
AACU Diversity, Equity, and Student Success
New Orleans, LA
Kelly Wentz-Hunter, Catherine Campbell, Elysia Soria

- 2016- *Assessment in the classroom*,
Roosevelt University Mini-Conference on Teaching, Chicago, IL

- 2014- *Assessment of written communication skills in biology core courses*,
Assessment Micro-Grants
Kelly Wentz-Hunter and Cornelius Watson
- 2013- *Guiding students through cognitive learning using post-test analysis*,
Roosevelt University Mini-Conference on Teaching, Chicago, IL
- 2011- *Differential gene expression after anti-oxidant treatment, from eyes to cancer*.
Department of Biological, Chemical, and Physical Sciences, pre-tenure seminar, Roosevelt University, Chicago, IL
- 2010- *MicroRNA expression during oxidative stress in the trabecular meshwork*
Roosevelt University Faculty Forum, Chicago, IL
- 2009- *Mission in Progress: Social Justice in the Biology Curriculum at Roosevelt University*
Developing a Good Heart in STEM: The First Summit on Incorporating Social Justice and Service-Learning into the STEM Curriculum, Ithaca, NY
- 2009- *Featured Model: Life and Death Decisions- Upper Level Cancer Biology Course Including Civic Engagement and Creative Writing*
Science Education and New Civic Engagement and Responsibilities [SENCER] Summer Institute, Chicago, IL
- 2008- *Learning Scientific Content with Research and Reflection on Life and Death Issues*
48th Annual Meeting of the American Society for Cell Biology
Education Initiative Forum, San Francisco, CA
- Learning scientific content with research and reflection on life and death issues*.
The Fifth Roosevelt University Mini-Conference on Teaching, Chicago, IL
- 2007- *Advances in Stem Cell Research*
American Medical Technologists Regional Meeting, Schaumburg, IL
- 2006- *Characterization of a glaucoma gene, myocilin, in human trabecular meshwork cells*
Roosevelt University Faculty Forum and Science Day, Chicago, IL

Abstracts Presented [*undergraduate student; ^graduate Master's student]

2019- *Pterostilbene treatment results in differential gene expression in trabecular meshwork cells*

Louis Stokes Midwest Regional Center for Excellence Annual Meeting

Indianapolis, IN

Areej Askar*, Kelly Wentz-Hunter

2018- *Gene Expression in Pancreatic Cancer Cells when Treated with Antioxidants*

Annual Meeting of the Society for Redox Biology and Medicine

Chicago, IL

Silver Homa*, Kelly Wentz-Hunter

2016- *Differential Gene Expression after Anti-oxidant Pterostilbene Treatment in Human Trabecular Meshwork Cells,*

Chicago Area Undergraduate Research Symposium

Jenna Jabali*, Kelly Wentz-Hunter

2015- *Using post-test analysis to develop metacognitive awareness and increase student performance*

55th Annual Meeting of the American Society for Cell Biology

San Diego, CA

Kelly Wentz-Hunter

2011- *Differential gene expression in trabecular meshwork cells after oxidative stress and treatment with antioxidant pterostilbene.*

Annual Biomedical Research Conference for Minority Students,

St Louis, MO

Yuridana Camacho*; Kelly Wentz-Hunter.

Identification of miRNA biomarkers of oxidative stress, a risk factor for glaucoma, in bovine trabecular meshwork cells.

MicroRNAs and Disease, Keystone Symposium, Banff, Alberta, Canada

Kelly Wentz-Hunter; Judith Potashkin; Vaiva Liakaite*; Ashley Leverenz^;

Johara Veal^.

2009- *Cellular and molecular biology core course redesign using a uniting theme of cancer.*

Transforming Undergraduate Education in Biology: Mobilizing the

Community for Change, American Association for the Advancement of

Science, Washington, DC

Kelly Wentz-Hunter

SENCER-SALG assessment over 7 semesters in a core biology course.
SENCER Summer Institute, Chicago, IL
Kelly Wentz-Hunter

2008- *Wnt gene expression in trabecular meshwork cells.*
ASCB Annual Meeting, San Francisco, CA
Rajalekshmy Shyam*, Xiang Shen, Beatrice Yue, Kelly Wentz-Hunter

2007- *Cancer as a theme in a core curriculum cellular and molecular biology course at Roosevelt University*
SENCER Summer Institute, Portsmouth, ME
Kelly Wentz-Hunter

Research Student Presentations

2016- *Differential Gene Expression after Anti-oxidant Pterostilbene Treatment in Human Trabecular Meshwork Cells*
Jenna Jabali*, Chicago Area Undergraduate Research Symposium

Effects of Antioxidant Epigallocatechin Gallate (EGCG) on Pancreatic Cancer
Sheba Prasad^, Master's Thesis Defense

2015- *Gene Expression in Pancreatic Cancer Cells*
Aslynn Cummings*, Honor's Thesis Presentation

The Effects of Pterostilbene in Pancreatic Cancer
Seira D'Cruz^, Master's Thesis Defense

2014- *Effect of Phloretin on DHCR24 gene in PANC-1*
Meghan Odendaal*, Honor's Thesis Presentation

An Apple a Day Keeps the Oncologists Away?
Siobhan Odendaal*, Honor's Thesis Presentation

MiR-107 Modulates TGFB2 and ACVR2B Expression in Human Trabecular Meshwork Cells Under Oxidative Stress
Dong-Ji Choi^, Science and Math Research Symposium Presentation

2013- *MRP-1 Expression in Human Trabecular Meshwork Cells*
Sonia Colon-Medina*, Kelly Wentz-Hunter, Paiboon Jungsuwadee
NIH-Summer Bridge Student Poster Session

Effects of Phloretin on Glaucoma Stress Markers
Norhan Elsayed*, Honor's Thesis Presentation

- 2010- *Differential expression of miRNA in trabecular meshwork cells during oxidative stress.*
Ashley Leverenz[^], Research Symposium, Roosevelt University
- 2009- *Pterostilbene and its effect on the expression of glaucoma markers induced by oxidative stress in trabecular meshwork cells.*
Maryam Aslani*, Honor's Thesis Presentation
- 2009- *The epidemic of cancer in Western society.*
Mathew Amidon*, Honor's Thesis Presentation
- 2009- *Pterostilbene and its effect on glaucoma cells.*
Barbara Misielak Wegiel*, Honor's Thesis Presentation
- 2008- *Characterization of cochlin from bovine ears.*
Jennifer Bezler*, Honor's Thesis Presentation
- 2008- *Wnt gene expression in trabecular meshwork cells after oxidative stress.*
Rajalekshmy Shyam*, Honor's Thesis Presentation
- 2008- *The Wnt pathway of cell signaling within the trabecular meshwork.*
Megan Kreft*, Honor's Thesis Presentation
- 2008- *The overexpression of β -catenin in bovine trabecular meshwork cells.*
Bartlomeij Calka* and Mathew Amidon*
19th Annual Argonne Symposium for undergraduates in Science and Engineering and Mathematics, Argonne, IL
- 2007- *Elucidating the Wnt signaling pathways in trabecular meshwork cells.*
Rajalekshmy Shyam*
18th Annual Argonne Symposium for undergraduates in Science and Engineering and Mathematics, Argonne, IL

Reviewer

- Invited Association of Physiology (APS) Life Science Teaching Resource
[LifeSciTRC] Community Reviewer, 2015-2019
- Invited APS Undergraduate Summer Research Fellowship Reviewer [UGSRF],
2016
- Invited APS Undergraduate Research Excellence Fellowship Reviewer [UGREF],
2016
- Textbook review, *Understanding Cancer* for Garland Scientific/Taylor & Francis
Group 2015
- Textbook review, *Biology of Aging 2e*, for Garland Scientific/Taylor & Francis
Group 2015
- Invited National Eye Institute Early Career Reviewer, 2012

Invited grant review panel member, NSF Course, Curriculum, and Laboratory Improvement (CCLI) program, Type 1, 2009
Manuscript reviews for *Molecular Vision* 2008-present
Textbook review, *Biology of Cancer* for Elsevier/Academic Press, 2008, 2024

Professional Development:

Courses completed

- Analyzing and Understanding Systemic Racism [2.5 day intensive workshop], 2018
- OLE:375 Conflict and Negotiations, Spring 2015
- OLE:370 Leadership Development, Fall 2014
- OLE:372 Organizational Development, Fall 2014
- OLE:320 Introduction to Organizational Communication, Spring 2014
- LifeSciTRC, Scholar, APS, 2013
- Writing Great Grant Workshop, 2010
- Lewis University Summer Institute: Critical thinking, assessment, course development, Romeoville, IL, 2006.
- Microinjection Techniques in Cell Biology, Marine Biological Laboratories, Woods Hole, MA, 1999.
- Fundamental Issues in Vision Research: Molecular and Cell Biological Approaches, Marine Biological Laboratories, Woods Hole, MA, 1998.

Grants and Fellowships:

- Research Development Infrastructure, Producing Research and Innovation through a Mentoring Ecosystem (PRIME), Co-PI, 2024-2027, \$4,991,504
- Title III Hispanic Serving Institution- Science, Technology, Engineering and Math (HSI-STEM) grant- Roosevelt University Learning and Engagement for STEM Success, Co-PI, 2021-2026, \$2,718,944
- Howard Hughes Medical Institute Inclusive Excellence Grant, PI, 2018-2025 \$1,000,000
- Louis Stokes Regional Center of Excellence for Broadening Participation in STEM, co-PI, 2019-2021, \$5000
- National Association of Advisors for Health Professions Travel Grant, 2016, \$944.25
- Assessment of Student Learning Micro-Grant, Co-PI, 2013, \$250
- Cellular and Microvesicular miRNA Expression During Oxidative Stress in Trabecular Meshwork Cells, Illinois Society for the Prevention of Blindness Research Grant, PI, 2009-2010, \$4951
- Analytical Instrumentation Acquisition for the Advancement of Science Education and Research at Roosevelt University, Max Goldberg Foundation, PI, 2009, \$25,000
- McCormick Transformational Service-Learning Grant, 2009-2010, \$2320
- American Association of Medical Colleges, uScience MedEd Portal Grant, 2009, \$2000
- RU Research Leave Grant, Fall 2009 and Fall 2015

- RU Summer Grant, 2007 \$1500, 2009 \$1500, 2011 \$1466, 2014 \$1500
- National Eye Institute Small Grants for Pilot Research RO3 (EY 14354), PI, 2003-2006; \$300,000
- Midwest Eye-Banks and Transplantation Center Scientific Grants Program, PI, 2001, \$15,000
- Nelson Fellowship Award, 2001, \$500
- Individual National Research Service Award (EY06889), 1998-2001
- ARVO Travel Fellowship Grant, Glaucoma Research Foundation, 1999
- National Eye Institute Fellowship for Fundamentals in Vision Course, 1998
- Sigma Xi Grant-in-Aid of Research, 1993
- Rosalind Franklin University of Medicine and Science Graduate Fellowship, 1991-1997

Departmental Service

Chair Department of Biological, Physical, and Health Sciences 2018-2020
 Leadership Committee, 2012-2018
 Pre-Professional Advisor, 2011-2018
 Director of Allied Health programs, 2012-2019
 Good News Wednesday Newsletter, editor, 2013-present
 PULSE, Participant, 2015-2020
 Faculty Search Committee Ecology, Co-chair, 2016
 Faculty Search Committee Ecology, Member, 2015
 Study Abroad Supporting Faculty, Marine Biology, Belize, 2015
 Faculty Search Committee Microbiology, Member, 2015
 First Wave/Summer Bridge, Instructor, 2014, 2016
 RU-Pre-Vet Club, Faculty Advisor, 2013-2015
 Faculty Search Committee Physiology, Chair, 2013
 Study Abroad Supporting Faculty, Conservation Biology, Tanzania 2013-2014, 2016, 2018
 RU Pre-Professional Club, Faculty Advisor, 2012-2019
 Faculty/Student Meet and Greet with Majors, organizer, 2011
 RU Biology Facebook Page, Creator and administrator, 2001-2020
 Career Exploration for Majors, Workshop organizer, 2011-2013
 Roosevelt University-Harold Washington College Partnership for STEM Education National Science Foundation STEM Talent Expansion Program Grant, Steering Committee, 2009-2014
 Faculty Search Committee Chemistry, Member, 2009
 Faculty Search Committee Ecology, Member, 2008
 RU Colleges Against Cancer, Faculty Advisor, 2008-2014
 RU Science Journal Club, Faculty Advisor, 2008-2009
 RU Science Day, Coordinator, 2008

College Service

Graduate Admissions MA Biomedical Sciences, 2016-2020
 College of Arts and Sciences Council, Chair, 2016-2018
 General Education Faculty Leadership Committee, 2016-2018

General Education Working Group, 2016
Gathering Content, website revisions, 2016
Class Scheduling, Biology, 2012-2016
McHenry High School Visit Day, Speaker, 2016
Dean Search Committee College of Arts and Sciences, Member, 2014
Policy Studies ad hoc committee, 2014
Reappointment, Tenure and Promotion Workshop, Leader, 2014-2015
Catalog Copy, responsible for yearly revisions to the six allied health programs, pre-professional page, and biomedical sciences program, 2014-2019
Graduate Orientation, 2006-2020
Graduate Open House, 2014-2020
High School Visit Day, Faculty panel, 2008, 2010, 2013, 2016, 2018

University Service

Co-Chair, Enrollment, Retention and Marketing Shaumburg subcommittee, 2023
Co-Chair, Global Scholars Task Force, 2023
Chair, Provost Search Committee, 2021
Building a Stronger Roosevelt, RMU Integration Task Force [Majors Curriculum and Community Partnerships], 2019
Assessment Committee, 2009-2020
Undergraduate Academic Reinstatement & Probation Committee, 2008-2020
First Year Fellow, 2016-2018
First Year Experience Task Force, 2014-2017
Institutional Animal Care and Use Committee, Chair, 2010-2018
CAS Dean Search Committee, 2015
Senate, University Senator, 2014-2016
Senate, Senate Executive Committee, 2014-2016
Senate, Handbook Subcommittee, 2014-2016
Planning and Budget Committee, 2013-2016
General Education Committee, 2013-2015
Strategic Planning Subcommittee 5, Member, 2013
Athletic Mentoring Board, Mentor, 2011-2013
Social Justice in the Biology Lab: A Panel Discussion, ACP 101 Keynote event, Panel member, 2011
RU Lakers, Official Scorekeeper for basketball and volleyball, 2010-2020
Faculty Library Committee, Member, 2007-2009
Head Librarian Search Committee, Member, 2008
University Open House, 2006-present

Professional Service

American Association for the Advancement of Science, 1992-present
American Association of Cell Biologists, 1997-present

Science Education and New Civic Engagement Responsibilities
[SENCER], 2006-present
SENCER Leadership Fellow 2008-2011
Sigma Xi, 2008-2018
American Association of University Professors [AAUP], Executive
Committee, 2012-2020
LifeSciTRC Fellow, APS, 2014-2015
Central Association of Advisors for the Health Professions, 2012-2020
National Association of Advisors for the Health Professions [NAAHP],
2012-2020
NAAHP, Biannual Meeting, Session Chair, 2016
Chicago Area Undergraduate Research Symposium, Poster Session
Judge, 2016, 2018
Illinois Articulation Initiative, Committee member, 2008-2013
Argonne Symposium for Undergraduates in Science, Engineering, and
Mathematics, Session chair, 2008
Association for Research in Vision and Ophthalmology, member, 1997-
2013

Community Service

International Cancer Advocacy Network, Research Team Leader, 2011-
2018
iBio Talent Sparks, Invited speaker and laboratory supervisor, 2010-2011
Summer Biotech Institute, Instructor 2008-2009
Science Chicago, sponsored by Museum of Science and Industry,
Microscope Mania, Science Saturdays, 2008
Taste of Science and Math, Chase Summer Academy at Roosevelt
University, Instructor, 2008
RU GLAMOROUS-CSI [Girls Learning About Math, Outstanding Research
and Organizing Unique Solutions using Computers, Science and
Investigations] Summer Camp for Girls, Curricular Director and
Instructor, 2007- 2010
Chicago Public School Science Fair, Judge, 2007

Honors:

Outstanding Service Award, Roosevelt University, 2009; 2018
National Society of Collegiate Scholars Distinguished Membership, 2013
Advisor of the Year, Colleges Against Cancer, Schaumburg, 2011
Event of the Year, Colleges Against Cancer, Schaumburg, 2010, 2011
Faculty Excellence in Scientific Research Award, 2008
Transformational Learning Recognition of Appreciation, 2008
SENCER Leadership Fellow, 2008-2011
Sigma Xi, 2008
Invited Speaker American Society for Cell Biology Annual Meeting, 2008
Annual Student Award for Excellence in Performance, 1993
Medical Pharmacology Honors, Top student, 1993